

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

Translation

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:		Date of mailing (day/month/year)	See Form PCT/ISA/210 (sheet 2)
Applicant's or agent's file reference 307037		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/EP2004/052188	International filing date (day/month/year) 15.09.2004	Priority date (day/month/year) 30.10.2003	
International Patent Classification (IPC) or both national classification and IPC H01Q1/12			
Applicant ROBERT BOSCH GMBH			

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input checked="" type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP	Authorized officer
Facsimile No.	Telephone No.

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Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. II

Priority

1. ☒ The following document has not yet been furnished:

☒ copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).

☐ translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	8	YES
	Claims	1-7, 9-12	NO
Inventive step (IS)	Claims	8	YES
	Claims	1-7, 9-12	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

2. Citations and explanations:

1 In the present opinion, reference is made to the following documents:

D1: EP 1 315 232 A (ZENDAR SPA) 28 May 2003
(2003-05-28)

D2: EP 0 751 580 A (NIPPON SHEET GLASS CO LTD)
2 January 1997 (1997-01-02)

D3: US 6 307 516 B1 (SCHAEFER REED CLINTON ET AL.)
23 October 2001 (2001-10-23)

D4: EP 0 382 895 A (BOSCH GMBH ROBERT) 22 August 1990
(1990-08-22)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 1 is not novel within the meaning of PCT Article 33(2).

Document D1 discloses a vehicle window antenna which has all the features of claim 1 (the references between parentheses refer to this document):

- having a first conductor arrangement, provided on

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

the window, for FM reception (see figure 1: lowest heat conductor region),

- which comprises heat conductors which are fed via a first decoupling and matching circuit (see figure 1: left-hand and right-hand reactors of the lowest heat conductor region), and
- a second conductor arrangement which is intended for AM reception and is spatially separated from the first conductor arrangement (see figure 1: heat conductor connected to "AM" in the centre),
- a second decoupling and matching circuit being provided (see figure 1: left- and right-hand reactors of the central heat conductor region) via which the conductors of the second conductor arrangement are fed,
- and the second decoupling and matching circuit being arranged downstream of the first decoupling and matching circuit (see figure 1: in the diagram shown the reactors of the central region can be considered as being arranged spatially downstream to those in the lower region; it is to be noted that the feature "to be arranged downstream" is to be considered as very wide and vague).

As a result of the wide room for interpretation of the feature "to be arranged downstream", both D2 (see figures 2-4: FM conductor arrangement (5), AM conductor arrangement (3), first decoupling and matching circuit (lower region of the transformer 8 + C1), second decoupling and matching circuit (upper region of the transformer 8): considered from the right in figure 4, the upper region of the transformer 8 is "arranged downstream" of the lower region) and D3 (see figures 2 and 3: starting from the right in figure 3, the second

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decoupling and matching circuit 72+74 is "arranged downstream") are considered to be prejudicial to the novelty of the subject matter of claim 1.

3 DEPENDENT CLAIMS 2-7, 9-12

Claims 2-7, 9-12 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty. With respect to the relevance of documents D1 to D3 for the respective claims, reference is made to the search report.

4 DEPENDENT CLAIM 8

The feature combination contained in dependent claim 8 is neither known from the available prior art nor suggested by it.